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HIGHWAYS
REPORT
OF THE
STATE
ROAD DEPARTMENT
OF THE
STATE OF FLORIDA

FOR THE FISCAL YEAR BEGINNING

OCTOBER 1, 1915

AND ENDING

SEPTEMBER 30, 1916



TALLAHASSEE, FLORIDA

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STATE ROAD DEPARTMENT OF THE STATE OF FLORIDA

MEMBERS.

Ed Scott, Chairman; 1st Congressional District..Arcadia
W. J. Hillman, 2d Congressional District.....Live Oak
J. D. Smith, Sec'y; 3d Congressional District..Marianna
M. M. Smith, 4th Congressional District.....Orlando
F. O. Miller, State-at-Large.....Jacksonville

State Road Commissioner.

Wm. F. CockeTallahassee

Employees of the Department.

J. P. Clarkson.....Chief Clerk
Julia C. Caldwell.....Stenographer
Gail L. Barnard.....Assistant Engineer
George K. Armes.....Assistant Engineer
H. E. Anschutz.....Draftsman
Harvey A. Hall.....Instrument Man

Headquarters of Department.....Tallahassee

STATE ROAD DEPARTMENT OF THE STATE OF FLORIDA

Tallahassee, Fla., January 23, 1917.

*To His Excellency, Hon. Sidney J. Catts,
Governor of Florida,
Tallahassee, Florida.*

Sir:

As Chairman of the State Road Department of Florida, I have the honor to transmit herewith the first annual report of this Department, together with recommendations as to legislation that the members of this Department believe to be needed in order to conserve the best interests of the people of the State relative to the construction and maintenance of roads and bridges.

Section 8, Chapter 6883, Laws of Florida, requires this Department to file with the Governor, before the meeting of the Legislature, a report of the operations of the Department for the preceding two years, and it also provides that "the Department shall report to the Governor, not later than sixty days before the meeting of the Legislature, such changes in the law as they find expedient to secure the best results in road construction and repair work."

The Act creating the State Road Department—Chapter 6883, Acts of 1915—provided that it should become operative October 1, 1915, with a proviso that the Governor might at any time after its passage and approval appoint the members of the Department. The Act was approved and became a law on June 2, 1915.

Your predecessor appointed as members of the Department, as provided in Section 1 of the Act, the following:

For four years each:

W. J. Hillman, Live Oak, Second Congressional District.

Ed Scott, Arcadia, First Congressional District.

For three years:

J. D. Smith, Marianna, Third Congressional District.

For two years:

F. O. Miller, Jacksonville, State-at-Large.

For one year:

M. M. Smith, Orlando, Fourth Congressional District.

Commissions were issued and the members of the Department met at Tallahassee, the State Capital, as provided by law, and perfected the organization on the 8th day of October, 1915, by electing the following officers:

Chairman, Ed Scott, Arcadia, Fla.

Secretary, J. D. Smith, Marianna, Fla.

In view of the requirement of the Act creating the Department that its headquarters must be maintained at the State Capital, and as none of the members of the Department have their legal residence in the Capital City, it became necessary to place someone in charge of the office pending the selection of a State Road Commissioner. To fill this requirement, J. P. Clarkson, of Tallahassee, Fla., secretary of the Florida State Goods Roads Association, was selected as Chief Clerk and assistant to the Secretary. The Department fixed the dates for its regular meetings on the second Wednesday in the months of April and October of each year.

There being no funds available for the maintenance of the Department at its organization, and some question being raised as to the constitutional validity of the Act

creating it, the appointment of a State Road Commissioner, provided in the Act, was postponed to a future meeting.

Being notified during the month of November, 1915, by the Chief Clerk, that several counties had signified their intention to resist payment to the State Treasurer of the 15 per cent of the county tax on automobiles, as provided in Section 10 of the Act creating the Department, said 15 per cent being the sole source of revenue for the maintenance of the Department, the Chairman requested the Attorney General of the Department, who was designated in the Act as the legal adviser of the Department, to test the constitutional validity of the Act.

Mandamus proceedings were brought in the Supreme Court of Florida against the County Commissioners of Leon County and the Tax Collector of the same county. The case was carried to a successful conclusion, and on April 6, 1916, a decision was rendered sustaining the constitutionality of the Act in every particular.

At the regular semi-annual meeting in April, 1916, the Department considered all applications for the position of State Road Commissioner and a special committee was appointed to investigate the qualifications of the applicants. Upon this committee's filing its report, at a meeting later in the same month, the Department appointed William F. Cocke, former engineer of maintenance of the State Highway Commission of Virginia, to fill the office of State Road Commissioner. Mr. Cocke assumed the duties of the office on May 19, 1916, and the report submitted by him is herewith attached, having been approved by a unanimous vote of the members of this Department.

Following the organization meeting, the Department held seven meetings during the fiscal year, as follows:

October 27, 1915, at Orlando, Fla.

April 12, 1916, at Tallahassee, Fla.

April 20, 1916, at Jacksonville, Fla.

May 19, 1916, at Jacksonville, Fla.

June 20, 1916, at Jacksonville, Fla.

August 10, 1916, at Marianna, Fla.

August 31, 1916, at Gainesville, Fla.

The regular annual meeting was held in Tallahassee on October 11, 1916.

Upon the expiration of the term of office of Hon. M. M. Smith, of Orlando, the member representing the Fourth Congressional District, who had been appointed for one year, from October 1, 1915, the Governor reappointed Mr. Smith for a full term of four years.

In submitting the attached report of the State Road Commissioner, the Department would respectfully call your attention to that portion of it under the captions "Convict Labor" and "Federal Aid," and especially to the recommendation that the Legislature should make an appropriation sufficient to meet the amount of Federal aid funds apportioned to Florida during the ensuing two years.

The Department's recommendations as to needed legislation are embodied in a separate report transmitted herewith.

While the members of this Department receive no compensation for their services, and the duties imposed by the law creating the Department call for giving considerable time and thought to the many problems confronting the State relative to the construction and maintenance of roads and bridges of a permanent character, I am sure that each and every member of the Department feels honored in having been selected to serve on the first State Road Department of Florida and has gladly given his best service to the work that has devolved upon him.

Trusting that our recommendations may meet the approval of Your Excellency, I have the honor to be,

Yours respectfully,

ED SCOTT, Chairman,
State Road Department

COMMISSIONER'S REPORT.

STATE ROAD DEPARTMENT.
STATE OF FLORIDA.

Tallahassee, Florida, October 10th, 1916.

*Honorable Ed. Scott, Chairman,
State Road Department,
Tallahassee, Florida.*

Dear Sir:

I have the honor to submit to the State Road Department my report as State Road Commissioner covering the operations of the Department during the first year of its existence, from October 1, 1915, to September 30, 1916.

While my connection with the Department did not begin until May 19, 1916, the records transmitted herewith are complete for the entire year and are summarized herein.

According to information furnished this Department by the State Treasurer, the total funds derived from the fifteen per cent. of the county license tax upon all motor driven vehicles, required by Section 10, Chapter 6883, Laws of Florida, for the maintenance of the State Road Department, during the fiscal year from October 1, 1915, to September 30, 1916, amounted to \$16,365.82, and the total amount refunded by counties, for expenses advanced by this Department while rendering engineering assistance, was \$44.72, making the total amount received by the State Treasurer, available for the maintenance of the State Road Department during the fiscal year, \$16,410.54.

Up to the end of the fiscal year, only one of the six

counties in which engineering assistance was rendered had refunded the amount advanced by the Department, and several counties had failed to remit the full amount due the State from moneys collected as license tax on automobiles and other motor driven vehicles.

From October 8, 1915, the date of the organization of this Department, to the end of the fiscal year, the total expenditures of the Department, for all purposes, amounted to \$10,193.75.

Table I of this report shows the amount remitted by each county for the support of the Department; Table II shows the expenditures under the several headings and the refund from the several counties which have been assisted by the Department; Table III shows a list of all vouchers issued by the Department during the fiscal year, with the purpose stated for which each voucher was issued.

From October 8, 1915, the date on which the Department was organized, to May 19, 1916, the date on which I assumed the duties of State Road Commissioner, the business of the Department was very ably handled by Mr. J. P. Clarkson, chief clerk, who, during that time, collected a great deal of valuable data. On December 20, 1915, Mr. H. E. Anschutz was employed as draftsman and made considerable headway in the preparation of county maps prior to my assuming charge of the work of the Department.

The working organization of the Department consists at present of the State Road Commissioner, Chief Clerk, Stenographer, Draftsman, two Assistant Engineers and one Instrument Man, making in all six salaried employees besides the Commissioner.

WORK OF THE DEPARTMENT.

In addition to the routine work, the office force has collected and sent out much valuable information relative to the road work of the State. During the fiscal year one

bulletin was published and the general road laws of the State were codified and prepared for publication in pamphlet form.

With the exception of map-making, no engineering work was undertaken until after June 1, 1916. Since that date forty-seven counties were visited and fifty-six inspections of road work made. Six counties requested engineering assistance during the year, and, complying with these requests, surveys, plans and approximate estimates were made on one hundred and thirty-three miles of road.

Reconnaissance surveys were made on approximately one thousand and fifty miles of road. These surveys include the distance and alignment and a report on the local material available for construction and maintenance. The roads thus covered constitute one main through road east and west and one north and south, and the data obtained will be of great value in planning a comprehensive system of State roads. This is being carried forward and extended to include other through routes and lateral roads, as the time of the Assistant Engineers is found to be available for such work.

County maps have been made of each of the fifty-two counties of the State, and two State maps have also been made. In some of the counties the roads have not been completely shown on these maps, as this data was not available. The field work necessary to secure the location of the roads not shown on the maps is being carried on by the Assistant Engineers as rapidly as the other work will permit.

It is proposed to divide the State into two divisions, the northern and the southern, placing one Assistant Engineer in charge of the work of the Department in the Northern Division, with headquarters at Tallahassee, and the other Assistant Engineer in charge of the Southern Division, with headquarters at Gainesville. The University of

Florida, at Gainesville, has kindly offered to furnish the Department with office space and other facilities for carrying on this work.

Arrangements have also been made for placing the testing laboratory of the Department at Gainesville, the University of Florida having offered to co-operate with the Department in a very liberal manner. The proposed testing laboratory will provide facilities for testing bituminous, materials, brick, cements, stone, sand, and other road building materials. An employee of this Department was sent to Washington, D. C., to work in the laboratory of office of Public Roads and Rural Engineering, in order to become familiar with their methods of testing road materials. Having completed the course, he will be placed in charge of the laboratory for testing road materials, and it is expected that this branch of the Department's work will be of great value to the several counties of the State at large by providing standard specifications for different road building materials and for testing the materials purchased, so as to insure that they conform to the requirements specified when they are sold.

As the work of the Department progresses in the different sections of the State, a careful study is being made of the local materials available for road construction, and it is hoped that a comprehensive bulletin can be published on this subject in the near future.

REPORTS FROM COUNTIES.

In compliance with Section 5, of the Act creating this Department, blank forms for quarterly reports on road construction and maintenance have been prepared and furnished, free of cost, to the several counties. These quarterly reports, to be of any value, should show both the cost of constructing any particular road and the annual cost of maintenance. Therefore, two blank forms have been prepared, one for construction and the other for

maintenance. The forms for both construction and maintenance are headed so as to show the amount of labor, terms, equipment, etc., employed on each class of road work, and the approximate amount of such work accomplished; also the cash expenditure in connection with same. These forms are less elaborate than those now in use in other States.

Although a copy of the Act creating this Department was mailed along with the blank forms sent to each county, these quarterly reports have come in very slowly, and twenty-four counties have not reported at all. Very few of those counties which have reported appear to be able to show fully how and where their money was expended.

To assist the counties in keeping a correct record of the work done and the cost of same, the Department has prepared and furnished, free of cost, a daily record book, in which can be kept the time of all labor, teams, etc., and the amount and character of the work done each day. The headings in the record book coincide with those on the quarterly report forms, so that the quarterly reports can be made up from these books, with very little labor by any one capable of keeping an ordinary time book. As far as the Department can learn, very few of the counties are using these record books.

A summary of the quarterly reports received from the counties which have reported is included in the attached report.

GENERAL CONDITIONS.

The road work being done by the several counties, with funds derived from county and district levies, consists largely of the maintenance of unimproved roads. Some counties are widening and straightening a portion of their road mileage each year and appear to be getting results of a permanent nature from their annual levy, but a great deal of money is being spent on purely temporary repairs.

with apparently no aim to remove the chief cause of the trouble at that particular point, with the consequence that the same expenditure must be made periodically and no permanent result obtained.

In many counties which have bonded for road improvement, it would appear that the roads thus improved are not receiving proper attention, and although suffering for lack of maintenance, actually less money per mile is being expended upon them than upon the unimproved roads.

The root of weakness underlying the present system of administration in road matters appears to be the custom which requires that the several County Commissioners assume the duties of operative heads of the road work in addition to the purely executive capacity contemplated in the General Statutes. Another source of weakness lies in the fact that each Commissioner's district is considered a distinct unit to be handled under its own system, or lack of system, thus making two hundred and sixty separate administrative units in the State.

I therefore feel it to be the obvious duty of this Department to advocate the employment by each county of an engineer, or superintendent, capable of handling all of the county road funds with economy and foresight, and that he be required to keep a record of the expenditure on each road under his supervision. While such a man would probably cost several times the amount paid for untrained supervision, there is no question that a man, in charge of the maintenance work in each county, would save annually many times his own salary and at the same time do a much higher class of work.

Money derived from the sale of bonds, especially those of long duration, should be expended only on work of a permanent nature. As the only parts of a highway which can be considered permanent are the location, the grade and the drainage structures, these should be given most careful attention on work being done with long term bonds.

Strictly speaking, no type of surface is permanent; therefore, the selection of the most suitable surface is a problem to be worked out from existing local conditions in each individual case. If reasonable in first cost, I would consider the laying of a short lived surface, with funds derived from the sale of bonds, far more pardonable than the practice, so common at present, of hard surfacing roads poorly located and insufficiently graded and drained. The building of temporary wooden bridges and culverts with funds derived from long term bonds is also to be condemned.

There are at the present time many competent engineers employed by counties which have bonded for road improvement, but they have had no voice in deciding the type of construction to be adopted. Such questions have usually been decided beforehand by mass meetings or by committees of well meaning but uninformed citizens.

Legislation requiring that bond issue funds be expended on work conforming to some reasonable standard of permanency would seem to be desirable.

CONVICT LABOR.

At the present time public opinion demands that convict labor be worked under such conditions that the individual convict will be self supporting; that he shall not compete with free labor in the production of farm products or manufactured articles; that he shall be kept in good physical condition and trained to live a sanitary life; and at the expiration of his term he shall have learned a useful occupation by which he can support himself respectably if he chooses to do so.

If organized into a State convict road force, under trained supervision, the prison population of the State could be worked so as to meet all of the above conditions and at the same time pay a handsome dividend on the cost of maintenance.

Your attention is respectively called to the attached report of a special committee of this Department, wherein it is shown that on the Virginia State Convict Road Force the total cost for housing, feeding, clothing and guarding was 36 cents per man per calendar day, and 56 cents per man per working day. As the weather conditions in Florida are better suited to outdoor work the year round than in Virginia, it could reasonably be expected to reduce the cost per man per working day at least ten per cent. This would mean ablebodied labor working six days per week at a total cost of 50 cents per day.

Such results are possible only where the management of the force for the entire State is centered under one State Department. No matter how efficiently they may be supervised, the individual counties cannot maintain their convict camps with the same economy possible under a well organized State Department.

FEDERAL AID.

There is available at this time for the State of Florida \$55,976.27 of Federal aid for road construction, that amount being this State's apportionment for 1916. As this money must be met by an equal amount, this Department has tendered \$32,000.00 of this fund to the Counties of Okaloosa, Columbia, Baker and Nassau for use in the improvement of the main east and west highway between Pensacola and Jacksonville, and \$23,976.27 to the Counties of Columbia and Alachua for the improvement of the main north and south highway between Lake City and Gainesville.

As yet no projects have been formally presented to the United States Department of Agriculture for approval, but this money has been tentatively accepted by all of the above counties except Alachua.

Also, under the authority of a resolution adopted by this Department, plans and approximate estimates are



CONVICTS LAYING BRICK PAVEMENT, ORANGE COUNTY



BRICK ROAD, ORANGE COUNTY



CONCRETE MIXER LAYING PAVEMENT AT NEW SMYRNA,
VOLUSIA COUNTY.



NEWLY LAID CONCRETE ROAD AT NEW SMYRNA, VOLUSIA COUNTY.



ASPHALT CONCRETE ROAD—SURFACE 18 FEET WIDE—
VOLUSIA COUNTY.



EXPENSIVE TYPE OF BRIDGE.
Note short spans and unnecessary middle pier.



BEFORE IMPROVEMENT—MARION COUNTY ROAD, NEAR McINTOSH.



AFTER IMPROVEMENT—MARION COUNTY ROAD, NEAR McINTOSH.
(Rough spot above was at foot of hill in background.)

being prepared for a bridge over the Apalachicola River at Chattahooche, with the expectation of applying Federal aid to the construction of same at some subsequent time.

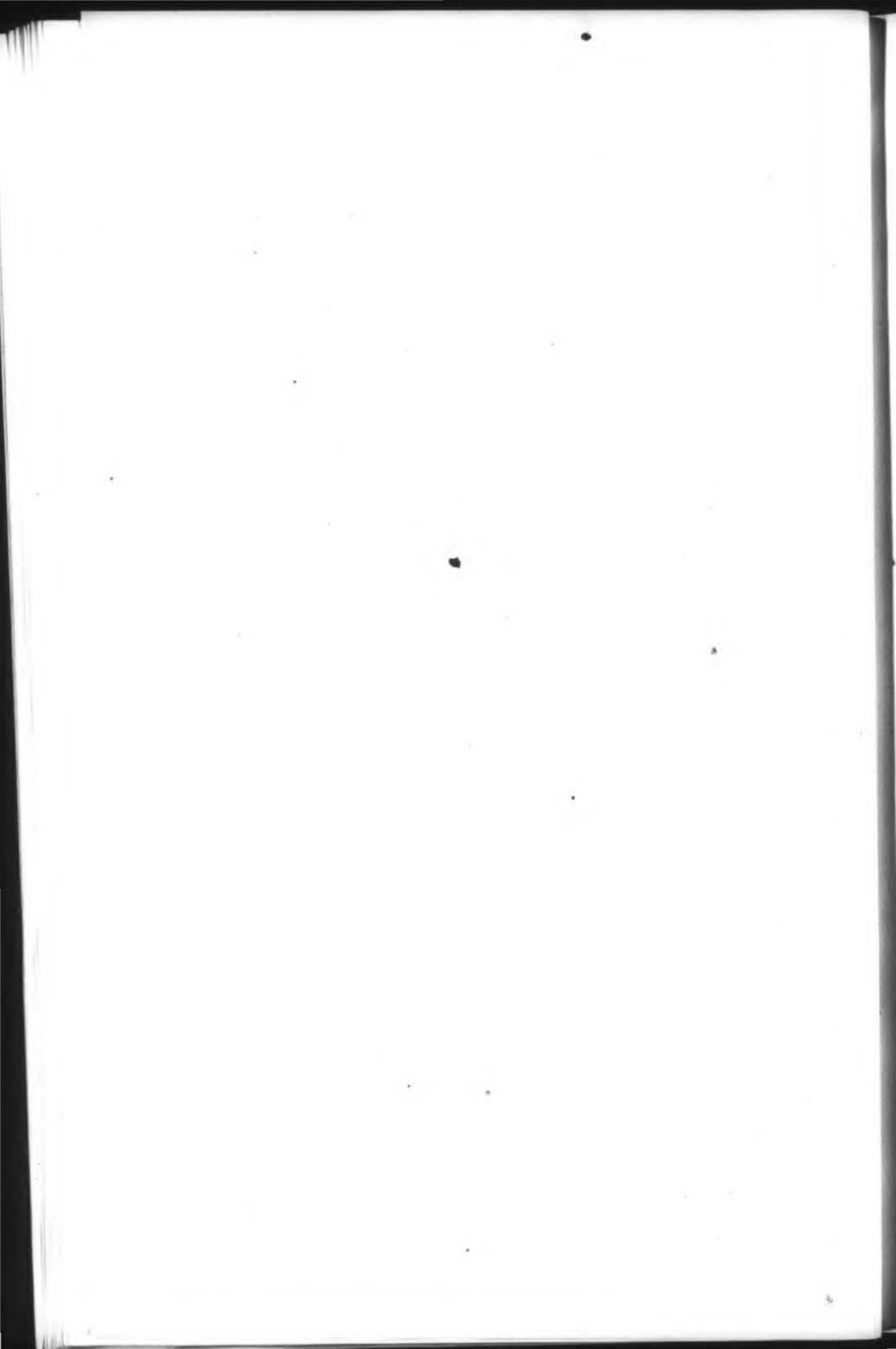
The total amount of Federal aid which will become available for this State under the Bankhead Act, during the ensuing five years, will be approximately \$839,644.05.

It would appear to be highly important that the Legislature, which is to convene on April 3, 1917, should appropriate money directly from the State revenue to meet this Federal aid during the ensuing two years.

From the result of practically only four and one-half months of active work, I feel that this Department has already accomplished work of a constructive nature and that we are one step nearer the goal of a complete system which will develop and build up our State by opening the door of opportunity to the best class of home-seekers and investors.

Respectfully submitted.

WM. F. COCKE,
State Road Commissioner.



FUNDS REMITTED BY COUNTIES FOR MAINTENANCE OF DEPARTMENT.

TABLE I.

The amount remitted by each of the fifty-two counties of the State to the State Treasurer in payment of the 15 per cent of county licenses on automobiles and other motor-driven vehicles, from October 1, 1915, to September 30, 1916, according to information secured by this Department from the office of the State Treasurer, said remittances being made in compliance with the provisions of Section 10, Chapter 6883, Laws of Florida, Acts of 1915, the Act creating this Department:

County—	Amount.
Alachua	\$ 438.40
Baker	50.40
Bay	105.88
Bradford	141.45
Brevard	260.09
Broward	227.20
Calhoun	59.33
Citrus	4.50
Clay	49.97
Columbia	71.10
Dade	1,061.55
DeSoto	371.14
Duval	2,510.40
Escambia	55.67
Franklin	37.05
Gadsden	256.65
Hamilton	92.59
Hernando	33.68

County—	Amount.
Hillsborough	2,160.90
Holmes	45.35
Jackson	261.22
Jefferson	39.00
Lafayette	10.95
Lake	437.55
Lee	202.05
Leon	314.10
Levy	43.25
Liberty	19.50
Madison	109.50
Manatee	361.36
Marion	52.55
Monroe	177.45
Nassau	81.90
Okaloosa	33.75
Orange	892.95
Osceola	213.00
Palm Beach	640.99
Pasco	151.96
Pinellas	716.71
Polk	819.30
Putnam	221.25
Santa Rosa	87.46
Seminole	53.70
St. Johns	1.17
St. Lucie	359.60
Sumter	9.79
Suwannee	177.38
Taylor
Volusia	1,597.65
Wakulla	20.25
Walton	136.05
Washington	91.02
Total	\$ 16,365.82

Classification of Expenditures.

TABLE II.

Expenditures of the State Road Department are classified under the general headings of "Administrative," "Office," and "Engineering." Under the heading "Administrative" are included the traveling expenses of the members of the Department; salary, office and traveling expenses of the State Road Commissioner; salary, office and traveling expenses of the Chief Clerk of the Department; and equipment and supplies, such as automobiles and supplies for same. Under "Office" are included salary of stenographer, salary of janitor, office rental, stationery, printing, postage, furniture and fixtures, and supplies of all kinds other than those for the use of the engineering division. Under "Engineering" are included salaries of draftsman, assistant engineers, instrument man, helpers, traveling expenses of employees of this division, and all equipment and supplies purchased for the use of the engineering division.

The expenditures of the Department, under these headings, for the fiscal year ending September 30, 1916, were as follows:

Administrative Expenses.

Salaries	\$ 2,874.84	
Traveling	1,389.30	
Equipment and Supplies.....	1,480.46	
		\$ 5,744.60

Office Expenses.

Salaries	\$ 181.50	
Postage, Supplies, etc.	859.56	
Furniture and Fixtures.....	495.79	
		\$ 1,536.85

Engineering Expenses.

Salaries	\$ 1,794.63	
Traveling	384.07	
Equipment and Supplies.....	733.60	
	<hr/>	\$ 2,912.30
Total expenditures for year.		<hr/> \$ 10,193.75

SERVICES TO COUNTIES.

During the last three months of the fiscal year the Department was called on to furnish engineering advice and assistance in six counties, as provided in Section 6 of the Act creating the Department. Complying with these requests entailed expenditures in these counties as follows:

Putnam County—

Total amount expended by department.....	\$ 108.89
Total amount charged against county.....	44.72
	<hr/>
Total amount borne by this Department....	\$ 64.17

Wakulla County—

Total amount expended by Department.....	\$ 81.94
Total amount charged against county.....	21.10
	<hr/>
Total amount borne by this Department....	\$ 60.84

Osceola County—

Total amount expended by Department.....	\$ 115.92
Total amount charged against county.....	40.92
	<hr/>
Total amount borne by this Department....	\$ 75.00

Calhoun County—

Total amount expended by Department.....	\$ 62.37
Total amount charged against county.....	17.70

Total amount borne by this Department....\$ 44.67

Leon County—

Total amount expended by Department.....	\$ 21.35
Total amount charged against county.....	3.85

Total amount borne by this Department....\$ 17.50

Okaloosa County—

Total amount expended by Department.....	\$ 112.50
Total amount charged against county.....	15.52

Total amount borne by this Department....\$ 96.98

Bills for the amounts due by the counties, as per above statement, were mailed to the Board of County Commissioners of each county, with the exception of Okaloosa, where the work is still in progress, but the only remittance received up to the close of the fiscal year was from Putnam County. This remittance, amounting to \$44.72, is accounted for in the statement of receipts by the State Treasurer for the maintenance of this Department.

Vouchers Issued.

During the Fiscal Year Beginning October 1, 1915, and
Ending September 30, 1916.

TABLE III.

Date.	Number.	To Whom and Purpose.	Amount.
Nov. 1,	1—	J. P. Clarkson, chief Clerk,	
		traveling expenses	\$ 22.05

Date.	Number.	To Whom and Purpose.	Amount.
Nov. 1,	2—	J. P. Clarkson, chief clerk, salary to Oct. 31	120.00
Nov. 1,	3—	H. R. Kaufman, office supplies.	61.30
Nov. 1,	4—	Drop-a-Line Indicator Co., office supplies	5.00
Nov. 1,	5—	J. W. Corbett, furniture and supplies	75.40
Nov. 1,	6—	D. R. Cox Furniture Co., office furniture	84.00
Nov. 1,	6½—	H. & W. B. Drew Co., office supplies	9.96
Nov. 16,	7—	F. O. Miller, Member of Department, travel expenses	27.95
Nov. 22,	8—	J. D. Smith, Member of Department, travel expenses	23.20
Nov. 22,	9—	Mrs. Rosa Lewis, stenographer, salary to Oct. 31	46.75
Nov. 24,	10—	Ed. Scott, Chairman of Department, travel expenses	34.19
Dec. 15,	11—	Eugene Dietzgen Co., draftsman's supplies	27.15
Dec. 15,	12—	T. J. Appleyard, State Printer, printing and stationery.....	73.65
Dec. 15,	13—	H. & W. B. Drew Co., fac-simile rubber stamp	1.26
Dec. 1,	14—	J. P. Clarkson, chief clerk, salary to Nov. 30	150.00
Dec. 2,	15—	J. P. Clarkson, chief clerk, office expenses, November	21.75
Dec. 2,	16—	Ed Scott, Chairman of Department, postage	2.00
Dec. 15,	17—	J. P. Clarkson, chief clerk, salary to Dec. 15	75.00
Dec. 24,	18—	M. M. Smith, Member of Department, travel expenses	25.70

Date.	Number.	To Whom and Purpose.	Amount.
Dec. 31,	19—	J. P. Clarkson, chief clerk, office expenses, Dec.	12.95
Dec. 31,	20—	J. P. Clarkson, chief clerk, salary to Dec. 31	75.00

1916.

Jan. 1,	21—	H. E. Anschutz, draftsman, salary from December 23 to December 31, 1915	36.30
Jan. 14,	22—	J. D. Smith, Sec'y of Department, travel expenses	104.12
Jan. 14,	23—	J. D. Smith, Sec'y of Department, refund for payment of Department membership fee in American Assn. of State Highway Officials, and telegraph charges	5.82
Jan. 17,	24—	H. & W. B. Drew Co., office supplies	17.24
Jan. 17,	25—	H. R. Kaufman, office supplies .	2.90
Jan. 31,	26—	T. J. Appleyard, State Printer, printing and stationery	12.10
Jan. 31,	27—	J. W. Corbett, office furniture and supplies	9.38
Jan. 31,	28—	H. E. Anschutz, draftsman, salary to Jan. 31	125.00
Feb. 1,	29—	J. P. Clarkson, chief clerk, salary to Jan. 31.....	150.00
Feb. 1,	30—	J. P. Clarkson, chief clerk office expenses, January.....	7.75
Feb. 15,	31—	J. P. Clarkson, chief clerk, salary to Feb. 15	75.00
Feb. 29	32—	H. E. Anschutz, draftsman, salary to Feb. 29	125.00

Date.	Number.	To Whom and Purpose.	Amount.
Feb. 29,	33—	J. P. Clarkson, chief clerk, salary to Feb. 29	75.00
Mar. 1,	34—	J. P. Clarkson, chief clerk, office expenses, Feb.	7.45
Mar. 15,	35—	J. P. Clarkson, chief clerk, salary to March 15	75.00
Mar. 31,	36—	J. P. Clarkson, chief clerk, salary to March 31	75.00
Mar. 31,	37—	H. E. Anschutz, draftsman, salary to March 31	125.00
Mar. 31,	38—	Eugene Dietzgen Co., draftsman's supplies	17.79
Mar. 31,	39—	G. T. Whitfield, clerk Supreme Court, copy of mandate of Court in case testing validity of Act creating State Road Department	4.55
Apr. 1,	40—	T. J. Appleyard, State Printer, office stationery	3.40
Apr. 1,	41—	H. R. Kaufman, office supplies .	1.80
Apr. 13,	42—	J. G. Collins, multigraphing copy, of Court mandate	13.00
Apr. 15,	43—	J. P. Clarkson, chief clerk, office expenses, Mar.	10.60
Apr. 20,	44—	M. M. Smith, Member of Dept., travel expenses	73.61
Apr. 20,	45—	Sheet Metal Roofing & Cornice works, map case	3.85
Apr. 20,	46—	Sallie Ivey, stenographic work for Chairman, at Arcadia ...	3.25
Apr. 21,	47—	J. P. Clarkson, chief clerk, travel expenses	16.10
Apr. 22,	48—	J. P. Clarkson, chief clerk, salary to April 15	75.00

Date.	Number.	To Whom and Purpose.	Amount.
Apr. 22,	49—	F. O. Miller, Member of Dept., travel expenses	18.10
Apr. 22,	50—	W. J. Hillman, Member of Dept., travel expenses	9.85
Apr. 22,	51—	W. J. Hillman, Member of Dept., travel expenses	26.55
Apr. 22,	52—	M. M. Smith, Member of Dept., travel expenses	15.25
Apr. 22,	53—	Ed. Scott, Chairman of Dept., travel expenses	18.26
Apr. 22,	54—	Ed. Scott, Chairman of Dept., travel expenses	99.84
Apr. 22,	55—	J. D. Smith, Secretary of Dept., travel expenses	37.13
Apr. 30,	56—	H. E. Anschutz, draftsman, of- fice expenses	2.71
Apr. 30,	57—	J. P. Clarkson, chief clerk, sal- ary to April 30	75.00
Apr. 30,	58—	M. E. Anschutz, draftsman, sal- ary to April 30	125.00
May. 15,	59—	J. P. Clarkson, chief clerk, sal- ary to May 15	75.00
May 15,	60—	J. P. Clarkson, chief clerk, of- fice expenses for April	16.38
May 31,	61—	H. E. Anschutz, draftsman, sal- ary to May 31	125.00
May 31,	62—	J. P. Clarkson, chief clerk, travel expenses, May	27.60
May 31,	63—	Wm. F. Cocke, travel expense in May	44.02
May 31,	64—	J. P. Clarkson, chief clerk, sal- ary to May 31	75.00
May 31,	65—	Wm. F. Cocke, Commissioner, salary to May 31	104.84
May 31,	66—	Julia C. Caldwell, stenographer, salary to May 31	5.50

Date.	Number.	To Whom and Purpose.	Amount.
May 31,	67—	Dixie Supply Co., office fixtures	21.80
May 31,	68—	H. & W. B. Drew Co., rubber stamps	1.47
May 31,	69—	J. P. Clarkson, chief clerk, office expenses for May	14.00
May 31,	69½—	Ed. Scott, Chairman of Dept., travel expenses	17.52
June 1,	70—	J. G. Collins, multigraphing letters	3.50
June 1,	71—	H. R. Kaufman, office supplies..	1.60
June 1,	72—	J. D. Smith, Secretary of Dept., travel and office expenses ...	35.09
June 1,	73—	T. J. Appleyard, State Printer, printing and stationery	11.50
June 15,	74—	H. E. Anschutz, draftsman, salary to June 15	62.50
June 15,	75—	Wm. F. Cocke, Commissioner, travel and office expenses ..	70.09
June 15,	76—	J. P. Clarkson, chief clerk, travel and office expenses	15.58
June 15,	77—	J. P. Clarkson, chief clerk, salary to June 15	75.00
June 19,	78—	Wrigley Engraving Co., office supplies	5.00
June 20,	79—	W. & L. E. Gurley, engineering supplies (transit, etc.)	172.12
June 27,	80—	J. G. Collins, multigraphing letters	1.50
June 30,	81—	J. P. Clarkson, chief clerk, salary to June 30	75.00
June 30,	82—	James Messer, purchase of Ford Car No. 1207731 and equipment for Department.....	548.70
June 30,	83—	<i>Void.</i>	

Date.	Number.	To Whom and Purpose.	Amount.
June 30,	84—	Wm. F. Cock, Commissioner, salary to June 30	250.00
June 30,	85—	H. E. Anschutz, draftsman, sal- ary to June 30	62.50
June 30,	86—	J. C. Caldwell, stenographer, salary to June 30	9.62
June 30,	87—	G. L. Barnard, assistant engi- neer, salary to June 30	30.00
June 30,	88—	W. A. DeMilly, tax collector, automobile license	5.00
June 30,	89—	Southern Tel. & Cons. Co., tele- phone, rental to Septem- ber 30	9.00
June 30,	90—	H. & W. B. Drew Co., office sup- plies	4.65
June 30,	91—	Keuffel & Esser, engineering sup- plies (level, etc.)	94.04
June 30,	92—	G. L. Barnard, assistant engi- neer, travel expenses and sup- plies	22.65
June 30,	93—	J. P. Clarkson, chief clerk, office expenses for June	12.53
July 3,	94—	H. & W. B. Drew Co., office sup- plies	14.08
July 3,	95—	H. R. Kausman, office supplies .	4.65
July 3,	96—	T. J. Appleyard, State Printer, printing and stationery	27.00
July 3,	97—	W. L. Marshall, engineering equipment (drawing board) .	16.00
July 3,	98—	Engene Dietzgen Co., engineer- ing supplies	40.18
July 3,	99—	Charles Williams, engineering supplies	3.50
July 3,	100—	G. D. Folsom, office fixtures (remodeling map case)	5.50

Date.	Number.	To Whom and Purpose.	Amount.
July 3,	101—	Tallahassee Livery Co., moving office fixtures, etc	6.00
July 3,	102—	Yaeger & Rhodes Hdw. Co., window screens	3.00
July 3,	103—	D. R. Cox Furniture Co., office table, chairs and stool	34.50
July 6,	104—	W. J. Hillman, Member of Dept., travel expenses	19.00
July 6,	105—	E. R. Dantzler, office fixtures (adding machine)	150.00
July 12,	106—	J. N. Rodgers, agent, insurance premium on Ford Car No. 1207731	5.00
July 15,	107—	H. E. Anschutz, draftsman, salary to July 15	62.50
July 15,	108—	H. A. Hall, instrument man, salary to July 15	20.00
July 15,	109—	J. P. Clarkson, chief clerk, salary to July 15	75.00
July 15,	110—	H. Clay Crawford, Secretary of State, automobile registration fee	2.00
July 26,	111—	P. B. Bird, Agent S. A. L. Ry., mileage book, Form "Z," No. C-54156, for use of Wm. F. Cocke, Commissioner.....	20.00
July 26,	112—	P. B. Bird, Agent S. A. L. Ry., mileage book, Form "Z", No. C-29538, or use of Wm. F. Cocke, Commissioner	20.00
July 30,	113—	A. A. A. Jackson, office and engineering furniture	13.00
July 30,	114—	J. W. Corbett, office supplies and fixtures	44.95
July 30,	115—	Ellis, Curtis & Kooker, engineering supplies (maps)	5.32

Date.	Number.	To Whom and Purpose.	Amount.
July 30,	116—	J. N. Rodgers, agent, insurance premium on office furniture, supplies and maps	17.94
July 30,	117—	G. L. Barnard, assistant engineer, travel expenses	54.52
July 30,	118—	W. B. McCauley, screens for office windows	8.00
July 30,	119—	Eugene Dietzgen Co., engineering supplies (blue printing machine, etc.)	205.15
July 31,	120—	Wm. F. Cocke, Commissioner, travel and office expense	80.59
July 31,	121—	J. P. Clarkson, chief clerk, office supplies and expenses ..	29.96
July 31,	122—	H. E. Anschutz, draftsman, travel expense, etc.	16.61
July 31,	123—	H. A. Hall, instrument man, travel expenses	2.50
July 31,	124—	Wm. F. Cocke, Commissioner, salary to July 31	250.00
July 31,	125—	J. P. Clarkson, chief clerk, salary to July 31	75.00
July 31,	126—	H. E. Anschutz, draftsman, salary to July 31	62.50
July 31,	127—	G. L. Barnard, assistant engineer, salary to July 31,	125.00
July 31,	128—	H. A. Hall, instrument man, salary to July 31	25.00
July 31,	129—	J. C. Caldwell, stenographer, salary to July 31	22.00
July 31,	130—	H. & W. B. Drew Co., office supplies	23.38
July 31,	131—	Leon Hotel, Tallahassee, account board and lodging of G. L. Barnard, assistant engineer .	20.50

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Date.	Number.	To Whom and Purpose.	Amount.
Aug. 1,	132—	James Messer, automobile supplies	6.35
Aug. 1,	133—	A. A. A. Jackson, making screen door and office fixtures	45.00
Aug. 1,	134—	Ragsdale Electric Co., wiring office and fixtures	18.01
Aug. 1,	135—	H. R. Kaufman, office supplies .	2.70
Aug. 1,	136—	T. J. Appleyard, State Printer, printing and stationery	51.25
Aug. 1,	137—	McCants & Motley, automobile supplies	10.89
Aug. 1,	138—	H. Clay Crawford, Secretary of State, copies of Laws of Florida	8.50
Aug. 1,	139—	Keuffel & Esser, Engineering supplies (2 levels)	7.31
Aug. 1,	140—	Wm. F. Cocke, Commissioner, office expenses and supplies..	10.90
Aug. 11,	141—	P. B. Bird, Agent S. A. L. Ry., mileage book, Form "Z", No. C-54188, for use of Wm. F. Cocke, Commissioner	20.00
Aug. 11,	142—	P. B. Bird, Agent S. A. L. Ry., mileage book, Form "Z", No. C-54187, for use of Ed. Scott, Chairman of Department....	20.00
Aug. 11,	143—	P. B. Bird, Agent S. A. L. Ry., mileage book, Form "Z", No. C-54186, for use of F. O. Miller, member of Department	20.00
Aug. 11,	144—	G. L. Barnard, assistant engineer, travel. expenses.....	30.87



ROCK ROAD IN PASCO COUNTY.

Note lack of maintenance.



FIG. 1. HIGHWAY BEFORE IMPROVEMENT.
Polk County, between Haines City and Davenport.
(Courtesy H. S. Jamison Eng. Co.)



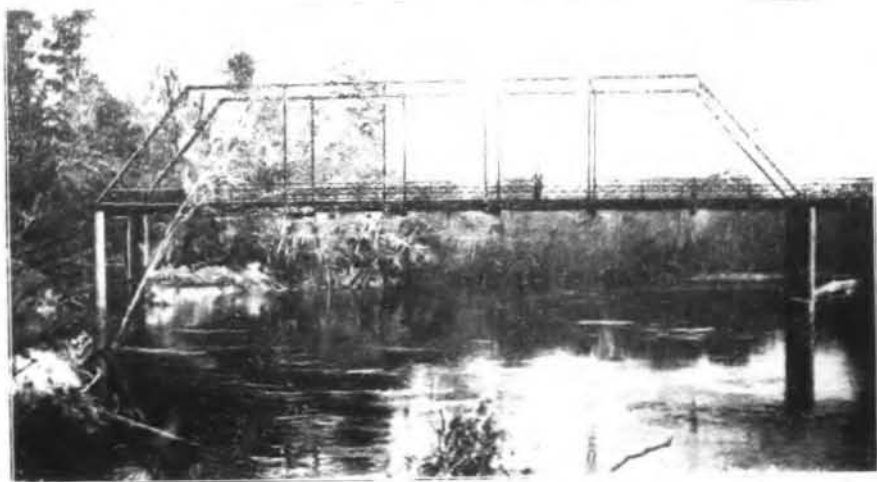
DIXIE HIGHWAY AFTER IMPROVEMENT—ASPHALT SURFACE.
Polk County, between Haines City and Loughman.
(Courtesy H. S. Jaundon Eng. Co.)



HAULING FOUNDATION MATERIAL. POLK COUNTY.
(Courtesy H. S. Jaundon Eng. Co.)



EXCAVATING FOUNDATION, POLK COUNTY, NEAR LUCERNE
PARK.
(Courtesy H. S. Jamison Co., Geo.)



STEEL BRIDGE RECENTLY BUILT, BUT TOO LIGHT TO CARRY
MODERN TRAFFIC.

Date.	Number.	To Whom and Purpose.	Amount.
Aug. 11,	145—	F. F. Rogers, Treasurer, dues of Department in American As- sociation of State Highway Officials	5.00
Aug. 11,	146—	W. C. Lewis, agent, office rent for July	22.50
Aug. 11,	147—	F. O. Miller, Member of Dept., travel. expenses	15.70
Aug. 11,	148—	H. E. Anschutz, purchase of large wall map of Florida...	125.00
Aug. 15,	149—	J. P. Clarkson, chief clerk, salary to August 15.....	75.00
Aug. 15,	150—	H. E. Anschutz, draftsman, salary to August 15.....	62.50
Aug. 15,	151—	H. A. Hall, instrument man, salary to August 15.....	25.00
Aug. 16,	152—	J. D. Smith, Secretary of Dept., travel and office expenses....	29.58
Aug. 18,	153—	J. P. Clarkson, chief clerk, travel and office expenses....	28.25
Aug. 21,	154—	G. L. Barnard, assistant en- gineer, travel and field ex- penses account Osceola Coun- ty	32.36
Aug. 21,	155—	G. L. Barnard, assistant en- gineer, travel and field ex- penses account Putnam Coun- ty	13.05
Aug. 21,	156—	A. A. A. Jackson, engineering equipment (tank for blue prints)	6.70
Aug. 21,	157—	Keuffel & Esser, leveling rod for engineers	2.36
Aug. 21,	158—	J. W. Corbett, office 'supplies and fixtures	30.60

Date.	Number.	To Whom and Purpose.	Amount.
Aug. 21,	159—	Eugene Dietzgen Co., supplies for draftsman	13.74
Aug. 21,	160—	Charles Williams, office and field supplies	5.50
Aug. 31,	161—	J. P. Clarkson, chief clerk, salary to August 31.....	75.00
Aug. 31,	162—	H. E. Anschutz, draftsman, salary to August 31.....	62.50
Aug. 31,	163—	Florida Times-Union, 260 copies of paper containing address of State Road Commissioner, for distribution	7.80
Aug. 31,	164—	J. C. Caldwell, stenographer, salary to August 31.....	64.63
Aug. 31,	165—	Wm. F. Cocke, Commissioner, salary to August 31.....	250.00
Aug. 31,	166—	G. L. Barnard, assistant en- gineer, salary to August 31..	125.00
Aug. 31,	167—	H. A. Hall, instrument man, salary to August 31.....	25.00
Aug. 31,	168—	Wm. F. Cocke, Commissioner, traveling expenses	74.27
Aug. 31,	168½—	P. B. Bird, Agent S. A. L. Ry., mileage book, Form "Z", No. C-54228, for use of Wm. F. Cocke, Commissioner	20.00
Aug. 31,	169—	M. M. Smith, Member of Dept., traveling expenses	28.95
Aug. 31,	170—	James Messer, supplies for auto- mobiles	36.07
Sept. 4,	171—	James Messer, purchase of Ford car and equipment for De- partment (Car No. 1333370) .	458.05
Sept. 8,	172—	Board of Public Works, electric current for August.....	2.80

Date.	Number.	To Whom and Purpose.	Amount.
Sept. 15, 188—	J. P. Clarkson,	chief clerk,	
		salary to September 15.....	75.00
Sept. 15, 189—	H. E. Anschutz,	draftsman,	
		salary to September 15.....	62.50
Sept. 15, 190—	G. L. Barnard,	assistant en-	
		gineer, salary to Sept. 15....	62.50
Sept. 15, 191—	H. A. Hall,	instrument man,	
		salary to September 15.....	25.00
Sept. 18, 192—	W. A. DeMilly,	tax collector,	
		license tax on department au-	
		tomobile No. 2, for 1917.....	5.00
Sept. 18, 193—	J. N. Rodgers,	insurance pre-	
		mium on department automo-	
		bile	9.16
Sept. 18, 194—	T. J. Appleyard,	State Printer,	
		printing and supplies.....	217.15
Sept. 30, 195—	Wm. F. Cocke,	Commissioner,	
		salary to September 30.....	250.00
Sept. 30, 196—	J. P. Clarkson,	chief clerk,	
		salary to September 30.....	75.00
Sept. 30, 197—	H. E. Anschutz,	draftsman,	
		salary to September 30.....	62.50
Sept. 30, 198—	G. L. Barnard,	assistant engi-	
		neer, salary to September 30.	62.50
Sept. 30, 199—	G. K. Armes,	assistant engineer,	
		salary to September 30.....	83.33
Sept. 30, 200—	H. A. Hall,	instrument man,	
		salary to September 30.....	25.00
Sept. 30, 201—	J. C. Caldwell,	stenographer,	
		salary to September 30.....	33.00
Sept. 30, 202—	P. B. Bird,	Agent S. A. L. Ry.,	
		mileage book, Form "Z", No.	
		C-61579, for use of H. A. Hall	20.00
Sept. 30, 203—	Wm. F. Cocke,	Commissioner,	
		traveling expenses	135.47

Date.	Number.	To Whom and Purpose.	Amount.
Sept. 30,	204—	J. P. Clarkson, chief clerk, office supplies and expenses..	3.28
Sept. 30,	205—	Wm. F. Cocke, Commissioner, office supplies and expenses..	13.29
Sept. 30,	206—	G. K. Armes, assistant engineer, traveling expenses, account Okaloosa County	12.25
Sept. 30,	207—	Proctor's Garage, gasoline.....	1.25
Sept. 30,	208—	So. Tel. & Cons. Co., service during September	4.35
Sept. 30,	209—	Board of Public Works, elec- tricity during September....	1.50
Sept. 30,	210—	Leon Hotel, Tallahassee, board of G. L. Barnard, assistant engineer	10.50
Sept. 30,	211—	Middle Florida Ice Co., ice, dis- tilled water, etc.....	5.03
Sept. 30,	212—	J. G. Collins, multigraphing letters	1.50
Sept. 30,	213—	Moses Sheppard, janitor, salary to September 30.....	3.00
Sept. 30,	214—	D. R. Cox Furniture Co., office furniture	14.00
Sept. 30,	215—	James Messer, supplies for auto- mobiles	12.85
Sept. 30,	216—	H. R. Kaufman, office supplies..	3.40
Sept. 30,	217—	W. C. Lewis, agent, office rent to September 30	45.00
Sept. 30,	218—	McCants & Motley, gasoline and oil for automobiles	9.58
Sept. 30,	219—	W. & L. E. Gurley, engineering supplies	21.33
Sept. 30,	220—	H. & W. B. Drew Co., office sup- plies	2.10
Sept. 30,	221—	Chas. F. Jackson, engineering equipment	5.00

Sept. 30, 222—Eugene Dietzgen Co., engineer- ing supplies	49.04
Sept. 30, 223—G. L. Barnard, assistant engi- neer, travel. expenses.....	72.56
Sept. 30, 224—H. A. Hall, instrument man, traveling expenses	31.25
Sept. 30, 225—Spiller Vulcanizing So., supplies for automobiles	3.50
Sept. 30, 226—Western Union Tel. Co., service during September	4.92
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Total expenditures for fiscal year.....	\$10,193.75

REPORTS FROM COUNTIES.

Summary of Quarterly Reports Required by Provisions of Section 5, Chapter 6883, Laws of Florida.

Carrying out the requirements of the Act creating the State Road Department, the Commissioner forwarded to the Board of County Commissioners of each county on June 17, 1916, copies of blank Form "F", requesting a report of expenditures for roads and bridges in each county for the six months' period ending June 30, 1916.

On August 4 this Department forwarded to the Clerk of the Circuit Court of each county a supply of blank Form No. 20 for reports of all construction work, and Form No. 21 for reports of all maintenance work. Accompanying these was a supply of daily time-books for the use of the road superintendents or foremen, with full instructions for the use of the books and blank forms for quarterly reports.

On September 8, 1916, another letter was mailed to the Boards of County Commissioners, urging a compliance with the provisions of the law requiring the filing of these reports on forms furnished by this Department.

Notwithstanding these requests, and also a letter from the Governor of Florida, in which the attention of delinquent counties was called to the requirements of the law, only twenty-nine counties have reported, and in most instances these reports are so vague and indefinite that they are of no practical value.

The following is a summary of the reports received:

Alachua County—

No report during fiscal year.

Baker County—

No report during fiscal year.

Bay County—

No report during fiscal year.

Bradford County—

Period covered—January 1 to June 30, 1916:

Expended for free labor	\$ 575.93
Expended for guarding convicts	923.00
Expended for board and care of convicts	1,523.91
Expended for feed of teams	420.94
Expended for bridge repairs and main- tenance	669.87

Total expenditures\$ 4,122.65

Character, location and amount of work not shown.

Brevard County—

Period covered—January 1 to June 30, 1916:

Expended for superintendence and super- vision	\$ 994.45
Expended for material	2,793.54
Expended for tools and machinery.....	311.73
Expended for live stock, cost and care...	1,800.18
Expended for free labor	3,822.14
Expended for surveying	6.00
Expended for roads built by contract...	150.00
Expended for bridges built by contract.	7,458.40
Expended for incidentals	57.80

Total expenditures\$ 17,394.24

Character, location and amount of work not shown.

Broward County—

Time covered not specified, but stated to be "for the period ending June 30, 1916":

Expended for road inspection (to the County Commissioners)	\$ 310.00
Expended for material and supplies.....	1,350.01
Expended for tools and machinery, cost and repairs	2,370.23
Expended for free labor	1,621.57
Expended for guarding convicts	425.42
Expended for board and care of convicts	655.25
Expended for bridges and ferries.....	190.00
Expended for freight on material.....	92.31

Total expenditures\$ 7,014.79

Character, location and amount of work not shown.

Calhoun County—

No report during fiscal year.

Citrus County—

No report during fiscal year.

Clay County—

No report during fiscal year.

Columbia County—

Period covered—January 1 to June 30, 1916:

Expended for superintendence and supervision	\$ 574.00
Expended for material	356.00
Expended for tools and machinery, cost and repair	203.77
Expended for live stock, cost and care..	765.78
Expended for free labor	1,742.56
Expended for guarding convicts	1,178.42

Expended for bridges built by contract..	110.41
Expended for material for bridges.....	516.21
Expended for hauling material	26.00

Total expenditures\$ 5,810.80
 Character, location and amount of work not shown.

Dade County—

No report during fiscal year.

DeSoto County—

Period covered—October 1, 1915, to March 31, 1916.

Expended for superintendence and supervision	\$ 4,301.49
Expended for material	6,542.32
Expended for hire of State convicts.....	1,402.61
Expended for tools and machinery, cost and repairs	7,007.83
Expended for live stock, cost and care...	2,795.06
Expended for free labor	13,628.31
Expended for guarding convicts	1,647.35
Expended for board and care of convicts	7,561.75
Expended for oil and gas tractors.....	2,712.06
Expended for bridges built by contract..	3,861.90
Expended for roads built by contract....	45.85
Expended for discharged convicts leased	674.41

Total expenditures\$ 52,180.94
 Character, location and amount of work not shown.

Note—The Clerk of this county has promised to send in report for the six months ending September 30, 1916, during January, 1917.

Duval County—

The Clerk of this county sent in the following state-

ment: "Have no road and bridge fund in this county. All expenses of roads and bridges is paid from the general fund."

Escambia County—

Period covered—Quarter ending June 30, 1916.

Expended for road inspection (to the County Commissioners)	\$ 144.00
Expended for material	707.52
Expended for tools and machinery, cost and repairs	640.25
Expended for live stock cost and care...	977.79
Expended for free labor	1,633.99
Expended for guarding convicts	1,341.72
Expended for board and care of convicts	2,111.20
Expended for bridges (account of).....	1,633.98

Total expenditures\$ 9,190.45

Character, location and amount of work not shown.

Average number of convicts at work on roads, 65.

Franklin County—

Period covered—January 1 to June 30, 1916.

Expended for material	\$ 702.97
Expended for tools and machinery, cost and repairs	258.58
Expended for free labor	1,138.25
Expended for live stock, cost and care...	145.52

Total expenditures\$ 2,267.32

Character, location and amount of work not shown.

Gadsden County—

Period covered—Quarter ending June 30, 1916:

Expended for superintendence and supervision	\$ 447.00
Expended for material	542.11

Expended for tools and machinery, cost and repairs	227.33
Expended for live stock, cost and care...	1,057.41
Expended for free labor	121.95
Expended for guarding convicts	270.00
Expended for board and care of convicts	1,263.35
Expended for bridges built by contract..	183.00

Total expenditures\$ 4,112.15

Character, location and amount of work not shown.

Hamilton County—

No report during fiscal year.

Hernando County—

Reports of maintenance work, covering quarters ending June 30 and September 30, 1916, received, but nothing reported covering construction work.

District No. 1—Disbursements.

Superintendent or overseers.....\$	48.00
Free labor	206.52
Hire of teams.....	129.00
Work done by contract.....	2.25
Inspection by County Commissioners...	28.00
Materials for bridges.....	53.45

Total expenditures in District No. 1.. \$ 467.22

The above work reported as "patching surface," but amount of work done is not shown.

District No. 2—Disbursements.

Superintendent of Overseer.....\$	20.00
Free labor	85.10
Hire of teams.....	28.00
Inspection by County Commissioners..	28.00

Materials for bridges.....	27.50
Miscellaneous expenses	2.50
Total expenditures in Listric No. 2..	\$ 190.00

The above work reported as "patching surface," but amount of work is not shown.

District No. 3—Disbursements.

Superintendent or overseer.....	\$ 65.50
Free labor	225.35
Hire of teams.....	197.50
Inspection by County Commissioners..	40.00
Materials for roads.....	27.57
Total expenditures in District No. 3..	\$ 555.92

The above work reported as "patching surface," but amount of work is not shown.

District No. 4—Disbursements.

Superintendent or overseer.....	\$ 261.50
Free labor	737.62
Expert labor	18.35
Guards*	60.00
Hire of teams.....	246.75
Inspection by County Commissioners..	28.00
Medical attendance	2.50
Materials for roads.....	8.00
Materials for bridges.....	78.76
Miscellaneous expenses	196.95
Total expenditures in District No. 4..	\$1,638.43

* Note—Charge shown for guards, also for medical attendance, but no charge shown for care of convicts.

The above work reported as "resurfacing," but amount of work is not shown.

District No. 5—Disbursements.

Superintendent or overseer.....	\$ 41.50
Free labor	97.63
Hire of teams.....	63.25
Inspection by County Commissioners..	40.00
Miscellaneous expenses	4.00

Total expenditures in District No. 5.. \$ 245.38

The above work reported as "patching surface," but amount of work is not shown.

Total expenditures for county.....\$3,097.55

Hillsborough County—

No report for fiscal year.

Holmes County—

No report for fiscal year.

Jackson County—

No report for fiscal year.

Jefferson County—

Period covered—January 1 to September 30, 1916:

Expended for superintendence and supervision	\$ 947.35
Expended for the free labor	3,052.29
Expended for feeding and care of the county teams	2,497.97
Expended for inspections by County Commissioners	268.00
Expended for materials for road and bridge repair	743.96
Expended for tools and machinery.....	346.93
Expended for miscellaneous expenses....	802.70

Total expenditures\$ 8,659.20

Amount and character of work not shown.

Lafayette County—

No report during fiscal year.

Lake County—

Period covered—January 1 to June 30, 1916:

Expended for inspections by County Commissioners	\$ 328.00
Expended for road and bridge material.	378.42
Expended for tools and machinery.....	325.67
Expended for care and feeding of teams..	1,197.08
Expended for free labor	6,333.26
Total expenditures	\$ 8,560.43

Note—No charge shown for superintendents or overseers.

Amount and character of work not shown.

No report since June 30, 1916.

Lee County—

Period covered—Quarter ending September 30, 1916:

District No. 1—Disbursements.

Paid foremen	\$ 150.00
Paid guards	180.00
Paid free labor	17.00
Paid for team hire.....	175.00
Board of foremen, guards and labor....	110.40
Board of convicts.....	594.20
Feed of county teams.....	30.00
Paid for bridge repair materials.....	175.00
Paid for road repair materials.....	200.00
Miscellaneous expenses	281.00
Total expenditures in District No. 1..	\$1,912.91

Amount and character of work done not shown.

District No. 2—Disbursements.

The following expenditures were made on:

Grading road	3 miles
Surfacing road 15 feet wide.....	$\frac{1}{2}$ mile
Superintendence	\$ 100.00
Roller man	60.00
Free labor	220.45
Pay of guards.....	170.00
Hire of teams.....	462.00
Board of convicts.....	703.74
Road materials	245.20
Bridge materials	150.00

Total expenditures in District No. 2.. \$2,111.39

Amount and character of work not shown.

District No. 3—Expenditures.

The following expenditures were made for bridge repairs:

Free labor	\$ 86.15
Materials for bridge repairs.....	65.58

Total expenditures in District No. 3.. \$ 151.73

Amount and character of work not shown.

District No. 4—Disbursements.

Paid for free labor.....	\$ 376.64
Paid to bridge tender.....	120.00
Supplies	36.05

Total expenditures in District No. 4.. \$ 532.69

Amount and character of work not shown.

Total expenditures for county.....\$4,708.72



HEAVY CLAY CUT AT CHATTAHOOCHEE, GADSDEN COUNTY.



HEAVY FILL MADE WITH MATERIAL TAKEN FROM CLAY CUT
SHOWN ABOVE.



FERRY ACROSS APALACHICOLA RIVER NEAR CHATTAHOOCHEE.
Site of proposed bridge.



ROCK ROAD, HERNANDO COUNTY, NEAR BROOKSVILLE.



SURFACE TREATED ROAD NEAR OJUS, DADE COUNTY.



SURFACE TREATED ROAD NEAR MIAMI, DADE COUNTY.



EAST AND WEST HIGHWAY THROUGH LEON COUNTY.



GOOD CONCRETE BRIDGE, LEON COUNTY.

Leon County—

Period covered—From January 1 to June 30, 1916:

Expended for superintendent and overseers..\$	411.00
Expended for inspections by County Commissioners	348.00
Expended for road and bridge material.....	185.52
Expended for tools and machinery.....	377.41
Expended for care and feeding of teams.....	867.16
Expended for free labor	1,026.52
Expended for guarding convicts	598.90
Expended for board and care of convicts....	1,751.90
Expended for road work done by contract...	32.50
Expended for leased convicts	240.00
Total expenditures	\$ 5,838.91

Note—The above work evidently does not include any of the work done under contract with bond issue funds.

No report for work done since June 30, 1916.

Amount and character of work done not shown.

Levy County—

Period covered—From January 1 to March 31, 1916.

Expended for superintendent and overseers	\$ 77.31
Expended for inspections by County Commissioners	92.00
Expended for road and bridge material..	54.64
Expended for tools and machinery.....	284.81
Expended for care and feeding of teams.	47.48
Expended for free labor	144.66
Expended for guards for convicts.....	162.30
Expended for board and care of convicts	435.96
Expended for leased convicts	39.00
Total expenditures	\$ 1,338.16

Note—No report since March 31, 1916.

Amount and character of work not shown.

Liberty County—

No report during fiscal year.

Madison County—

No report during fiscal year.

Manatee County—

Period covered—For quarter ending June 30, 1915:

District No. 1—Disbursements.

Free labor, including foreman....	\$1,186.28
Engineering	113.47
Hire of teams other than county...	44.87
Inspection by Co. Commissioners..	56.00
Feed of county teams.....	43.56
Miscellaneous expenses	77.12
Road materials	76.30
Bridge materials	57.15

Total expenditure in District No. 1	\$1,654.75
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Amount and character of work not shown.

District No. 2—Disbursements.

Free labor, including foreman.....	\$ 663.90
Engineering	98.40
Hire of teams other than county..	55.50
Inspection by Co. Commissioners..	32.00
Feed of county teams.....	86.88
Miscellaneous expenses	137.55
Road materials	386.29
Bridge materials	114.65

Total expenditure in District No. 2	\$1,575.17
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Amount and character of work not shown.

District No. 3—Disbursements.

Free labor, including foremen.....	\$ 751.00
Engineering	87.32
Hire of teams other than county..	150.75
Inspection by Co. Commissioners..	56.00
Feed of county teams.....	26.00
Miscellaneous expenses	412.84
Bridge materials	85.75

Total expenditure in District No. 3 \$1,569.66

Amount and character of work not
shown.

District No. 4—Disbursements.

Free labor, including foremen.....	\$ 248.64
Engineering	55.04
Hire of teams other than county..	10.40
Miscellaneous expenses	2.15
Bridge materials	64.21

Total expenditure in District No. 4 \$ 380.40

Amount and character of work not
shown.

District No. 5—Disbursements.

Free labor, including foremen.....	\$ 960.19
Engineering	121.40
Inspection by Co. Commissioners..	60.00
Miscellaneous expenses	31.20
Bridge materials	100.76
Contract price on 18,392 sq. yds. of bituminous surface.....	8,142.36

Total expenditure in District No. 5 \$9,415.32

Amount and character of work is
Shown only on contract.

Total expenditures for county.....\$14,595.94

Marion County—

No report during fiscal year.

Monroe County—

No report sent in, but a letter which stated that the total expenditures on roads from January 1 to June 30, 1916, amounted to \$96.00. No statement as to amount and character of work.

Nassau County—

No report during fiscal year.

Okaloosa County—

Period covered—From July 1 to September 30, 1916:

Expended for superintendent, labor and team hire	\$ 2,847.82
Expended for road and bridge material	333.77
Expended for inspection by Co. Comm'rs	48.00
<hr/>	
Total expenditures	\$ 3,229.59

Note—The above was not reported on Form 21, as requested, but states that work done was general maintenance of county roads. The approximate mileage thus covered not given.

Orange County—

Period covered—January 1 to June 30, 1916:

Expended for superintendents and overseers	\$ 1,380.00
Expended for inspections by County Commissioners	128.00
Expended for road and bridge materials	1,765.12
Expended for tools and machinery	1,651.05
Expended for care and feeding of the county teams	3,203.77
Expended for hire of teams	992.66

Expended for free labor	6,447.44
Expended for guarding convicts	1,265.28
Expended for board and care of convicts	4,301.18
Expended for bridges built by contract..	762.00
Expended for engineering	82.90
Total expenditures	<u>\$21,979.40</u>

Character and amount of work not shown.

Note—No report since June 30, 1916.

Osceola County—

Period covered—January 1 to June 30, 1916.

Expended for superintendents and overseers	\$ 375.00
Expended for road and bridge material..	971.51
Expended for tools and machinery.....	743.79
Expended for care and feeding of county teams	1,627.35
Expended for free labor	1,608.44
Expended for guarding convicts	1,106.38
Expended for board and care of convicts	1,926.50
Expended for miscellaneous expenses ...	619.71
Expended for engineering	254.52
Expended for roads built by contract...	26,979.57
Total expenditures	<u>\$ 36,212.77</u>

Amount and character of work not shown.

Note—No report on work done since June 30, 1916.

Palm Beach County—

Report of construction work done under supervision of County Engineer from January 1 to September 30, 1916.

This work consisted of crushed limestone base with bituminous wearing surface laid by the penetration method.

Approximately 65 miles of road has been under construction, upon which was expended, during the above period, the sum of \$283,271.08.

Of this amount, \$11,635.12 was expended on bridges.

Pasco County—

Period covered—October 1, 1915, to March 30, 1916.

Expended for inspections by County Commissioners	\$ 220.00
Expended for road and bridge material..	211.37
Expended for tools and machinery.....	35.49
Expended for free labor	1,906.91
Expended for bridges built by contract..	583.60
Expended for purchase of right of way..	50.00

Total expenditures\$ 3,007.37

Amount and character of work not shown.

Note—No report since March 30, 1916.

Pinellas County—

No report for fiscal year.

Polk County—

Period covered—March 1 to September 30, 1916:

Expended for superintendent or overseer.\$	653.14
Expended for inspections by County Commissioners	536.00
Expended for road and bridge material..	4,476.00
Expended for tools and machinery.....	1,337.26
Expended for care and feeding of teams.	3,255.67
Expended for free labor	36,623.63
Expended for guarding convicts	1,360.46
Expended for (not specified)	4,614.13
Expended for board and care of convicts.	5,580.17
Expended for bridges built by contract..	442.75

Total expenditure\$ 58,879.21

Character, location and amount of work not shown.

Putnam County

No report during fiscal year.

Santa Rosa County

Period covered—October 1, 1915, to March 31, 1916.

Expended for superintendents and overseers	\$ 707.50
Expended for inspections by County Commissioners	264.00
Expended for material	478.12
Expended for tools and machinery, cost and repairs	212.10
Expended for live stock, cost and care...	164.10
Expended for free labor, other than guards'	3,246.45
Expended for team hire	1,259.85
Expended for bridges built by contract..	359.00
Expended for incidentals	193.15
Paid Town of Milton— $\frac{1}{2}$ of road tax collected	396.61
Salary of bridge keeper.....	42.00

Total expenditures\$ 7,158.78

Character, location and amount of work not shown.

Seminole County—

No report for fiscal year.

St. Johns County

No report for fiscal year.

St. Lucie County—

Period covered—January 1 to June 30, 1916:

Expended for superintendents and overseers	\$ 1,788.80
Expended for inspections by County Commissioners	46.00
Expended for material	5,407.65
Expended for tools and machinery, cost and repairs	2,787.56

Expended for live stock, cost and care...	7,604.89
Expended for free labor, other than guards	10,590.83
Expended for guarding convicts	434.85
Expended for board and care of convicts.	414.18
Miscellaneous cost of construction and maintenance of roads and bridges...	2,135.77
Paid on account of roads built by contract	41,815.27
salary of engineer.....	1,576.47
Miscellaneous expenditures	18.80

Total expenditures\$ 74,621.07
 Character, location and amount of work not shown.

Sumter County—

Period covered—January 1 to June 30, 1916:

Expended for superintendents and over- seers	\$ 12.00
Expended for inspections by County Com- missioners	4.00
Expended for material	153.14
Expended for tools and machinery, cost and repairs	147.29
Expended for free labor, other than guards	1,857.43
Total expenditures	\$ 2,173.86

Distribution by Districts.

District No. 1.....	\$ 256.40
District No. 2.....	240.21
District No. 3.....	87.25
District No. 4.....	897.21
District No. 5.....	693.89

Total\$2,174.96
 Character, location and amount of work not shown.



BIG PRAIRIE, DE SOTO COUNTY.



CONCRETE SLAB BRIDGE, DE SOTO COUNTY.



ASPHALT MIXING PLANT, PUNTA GORDA, DE SOTO COUNTY



STEAM SHOVEL AT WORK ON ROAD IN LEON COUNTY.

Suwannee County—

No report during fiscal year.

Taylor County—

No report during fiscal year.

Volusia County—

Period covered—January 1 to June 30, 1916:

Expended for superintendents and overseers	\$ 1,200.00
Expended for inspections by County Commissioners	240.00
Expended for material	2,486.70
Expended for tools and machinery, cost and repairs	1,369.37
Expended for free labor, other than guards	13,401.73
Expended for board and care of convicts.	4,049.02
Paid to ferrymen and bridge tenders.....	210.00
Total expenditures	\$ 22,956.82

Distribution by Districts.

District No. 1.....	\$8,419.88
District No. 2.....	2,669.52
District No. 3.....	3,694.05
District No. 4.....	5,461.82
District No. 5.....	4,983.00
Total	\$25,228.27

Note—Report shows, "Paid Southern Fruit and Farms Company \$750.00," but no explanation as to classification of expenditure.

Character, location and amount of work not shown.

Wakulla County

Period covered—January 1 to September 30, 1916:

District No. 1—Disbursements.

Foremen	\$ 9.00
*Free labor	19.00
Inspection by County Commissioners	4.00
General repair work done on roads by contract	195.66
General repair work done on bridges by contract	40.00
Inspector on contract work.....	124.00
Payments on contract for grading and surfacing 20 miles 15% complete	3,093.18
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Total expenditures in District No. 1	\$3,484.84

*Note—Time of compulsory labor not kept.

District No. 2 Disbursements.

Repairs on 300 lineal feet of road.....	\$ 2.00
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*Note—Time of compulsory labor not kept.

District No. 3 Disbursements.

General repairs to roads.....	\$ 4.50
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*Note—Time of compulsory labor not kept.

District No. 4—Disbursements

(Expended on repair of 1-3 mile of road.)

Foreman	\$ 1.00
*Free labor	80.49
Miscellaneous expense	1.50
<hr/>	
Total expenditures in District No. 4	\$ 82.99

*Note—Time of compulsory labor not kept.

District No. 5 Disbursements.

Foreman	\$ 38.00
*Free labor	198.34
Team hire	5.50
Metal pipe	270.69
Paid for grading by contract.....	253.95
Paid for bridge repaid by contract..	219.10
<hr/>	
Total expenditures in District No. 5	\$ 975.58
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Total expenditure of county....	\$4,549.91

*Note—Time of compulsory labor not kept.

Note—The road work shown above covered approximately 20 miles and consisted largely of ditching and filling in low sections of the several roads.

Walton County—

Period covered—October 1, 1915, to March 31, 1916:

Salaries of road superintendents and over- seers	\$ 500.00
Paid County Commissioners for road in- spections	172.00
Cost of material	1,142.11
Tools and machinery, cost and repair....	817.81
Live stock, cost and care.....	1,038.88
Free labor, other than guards.....	827.10
Pay of convict guards.....	581.02
Board and care of convicts.....	2,295.79
Special Road and Bridge District No. 1..	840.35
Paid on account of convicts leased.....	148.82
Paid for hire of State convicts.....	485.51

Total expenditures	\$ 8,849.39
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Character, location and amount of work not specified

No information given as to location of Special Road and Bridge District No. 1. No reports for quarter ending June 30 and September 30, 1916.

Washington County—

Periods covered—January 1 to June 30, and July 1 to September 30, 1916.

Disbursements—Period Ending June 30, 1916.

Salaries of road superintendents and overseers.	\$ 106.50
Paid to County Commissioners for road inspections	16.00
Cost of material	268.32
Paid for free labor, other than guards.....	562.89
Operating ferries	307.45
Paid on account of roads built by contract...	754.53
Paid on account of bridges built by contract..	165.98
Paid incorporated cities and towns.....	41.10
Paid on account of district roads.....	9.00

Total expenditures for period.....\$ 2,231.77

Disbursements—Quarter Ending September 30, 1916.

Salaries of road superintendents and overseers.	\$ 46.50
Paid to County Commissioners for road inspections	65.18
Cost of material	111.75
Paid for free labor, other than guards.....	512.35
Operating ferries	152.97
Paid on account of bridges built by contract.	2,734.70

Total expenditures for period.....\$ 3,623.45

Total expenditures from January 1 to September 30, 1916.....\$ 5,855.22
Character, location and amount of work not specified.

REPORT OF SPECIAL COMMITTEE.

Report of the Special Committee appointed to represent the State Road Department of Florida at the Conference of State Highway Officials and the United States Department of Agriculture, held in Washington, D. C., August 16, 1916.

Honorable Members of the State Road Department:
Gentlemen:

We, your Special Committee appointed to represent our Department at the conference of State Highway Officials, held in Washington, D. C., on August 16, 1916, beg to make the following report:

Your committee arrived in Richmond, Virginia, on Sunday, August 13, and on the following day had a conference with Hon. G. P. Coleman, State Highway Commissioner of that State. Later, Mr. Coleman accompanied your committee to one of the convict camps operated by his Department.

This camp was of the portable type and consisted of one cell tent, or bunk house, for the prisoners, 20x70 feet; one kitchen and dining room tent, 20x70 feet; and one office tent, 16x32 feet, divided into two rooms, one of which was used as an office and sleeping room for the sergeant or head guard, and the other room as sleeping quarters for the guards. The quarters for both prisoners and guards, while bare, were scrupulously clean.

Mr. Coleman stated that he was operating thirty-three camps, averaging about fifty men to the camp, and that the feeding, clothing and guarding of the prisoners was costing the State thirty-six cents per man per calendar day, or fifty-three cents per man per working day. Some-

thing over thirty per cent (30%) of the seventeen hundred (1,700) prisoners, employed on road work, were trustees and were worked without guards.

Mr. Coleman advocated dividing the prisoners into four classes, as follows:

Class No. 1—Dangerous men, to be worked in stone quarries, gravel pits, etc., where they could be closely guarded.

Class No. 2—Men not considered dangerous, but who require guarding, to be worked in squads on various forms of road construction, such as grading, surfacing, etc.

Class No. 3—Trustees, who would be worked without guards, but would be required to remain in camp at night and be under the same rules as Class No. 2.

Class No. 4—Honor or paroled men, who would be employed, either singly or in squads, on maintenance work, and who would be permitted to live outside of the camp wherever they would be conveniently located for their work. These paroled men would be permitted to wear citizens' clothes and would be paid current wages. Mr. Coleman also advocated the paying of a small per diem to Class No. 2 and No. 3.

Later, your committee visited the Virginia State Penitentiary and had a conference with Superintendent J. B. Wood in regard to the care and housing of prisoners on road work. Mr. Wood's ideas were practically the same as those outlined by Mr. Coleman.

On August 15 your committee attended a meeting of the National Association of Highway Officials, held at the Raleigh Hotel, Washington, D. C., for the purpose of discussing the tentative rules, prepared by the United States Department of Agriculture, for the handling of the Federal aid for road work.

This meeting was presided over by Mr. H. G. Shirley, of Maryland, President of the Association, Dr. Joseph Hyde Pratt, of North Carolina, acting as Secretary. The

tentative rules prepared by the United States Department of Agriculture were taken up and discussed in consecutive order and resolutions passed relative to each.

The spirit of the meeting was very harmonious and a great deal of valuable information was brought out and discussed at considerable length. A number of resolutions were passed requesting the Secretary of Agriculture to alter or modify the tentative rules in various particulars. The meeting adjourned about four o'clock P. M.

During the evening a meeting of the representatives from the States of Alabama, Florida, Louisiana, North Carolina, New Jersey and Virginia was held, to discuss some equitable basis on which convict labor could be worked in connection with the Federal Aid Fund. A plan was agreed upon to be presented to the Secretary of Agriculture at the conference to be held on the following day.

On Wednesday, August 16, your committee had a conference with Honorable Logan Waller Page, Director, United States Office of Public Roads and Rural Engineering, in regard to the use of convict labor in connection with the Federal Aid Fund, and Mr. Page assured your committee that he would do everything in his power to facilitate the working of convict labor on the several Federal aid projects in the State of Florida.

Later, your committee attended the joint conference of the United States Department of Agriculture and the representatives of the several State Road Departments. Thirty-two State Road Departments were represented at this conference, which was presided over by Honorable Logan Waller Page, Mr. J. E. Pennybacker acting as Secretary.

The tentative rules gotten out by the United States Department of Agriculture were taken up in consecutive order and discussed in connection with the resolutions relative to same, as passed by the National Association of Highway Officials at the meeting held on the previous

day. The scope of the discussion was very broad and far reaching, and resulted in a very satisfactory understanding between the United States Department of Agriculture and the representatives of the several State Road Departments.

The meeting was also addressed by the Honorable D. F. Houston, Secretary of Agriculture, whose entrance created a great deal of applause. The conference adjourned about one o'clock P. M.

Later in the day, your committee had a conference with Mr. H. G. Shirley, Chief Engineer, Maryland State Roads Commission, and Mr. Shirley gave a general outline of the system of State and State aid roads constructed and maintained under his Department. Mr. Shirley stated that the practicability of the Maryland plan had been demonstrated by the results obtained and by the general approval of the people of his State. He described how his Department prepared plans and estimates, to be presented to each State Legislature, covering proposed work for the ensuing two years. The Legislature then authorized the issuing of State bonds for a sufficient amount to cover the proposed work. Under this plan, a wonderful system of State and State aid roads has been built and is now being maintained with great efficiency.

Your committee is of the opinion that if a similar system could be worked out for Florida it would be the means of connecting up our existing county systems and opening up every section of the State, and also providing the through State roads, for which there is a growing demand.

Your committee also had a conference with the officials of the Forestry Service, relative to securing a portion of the fund for road improvement in and adjacent to the National Forest Reserves, two of which are situated in this State.

The result of this conference encourages the belief that

Florida will head the list in a group of six States which are to receive \$9,500.00 each for this purpose.

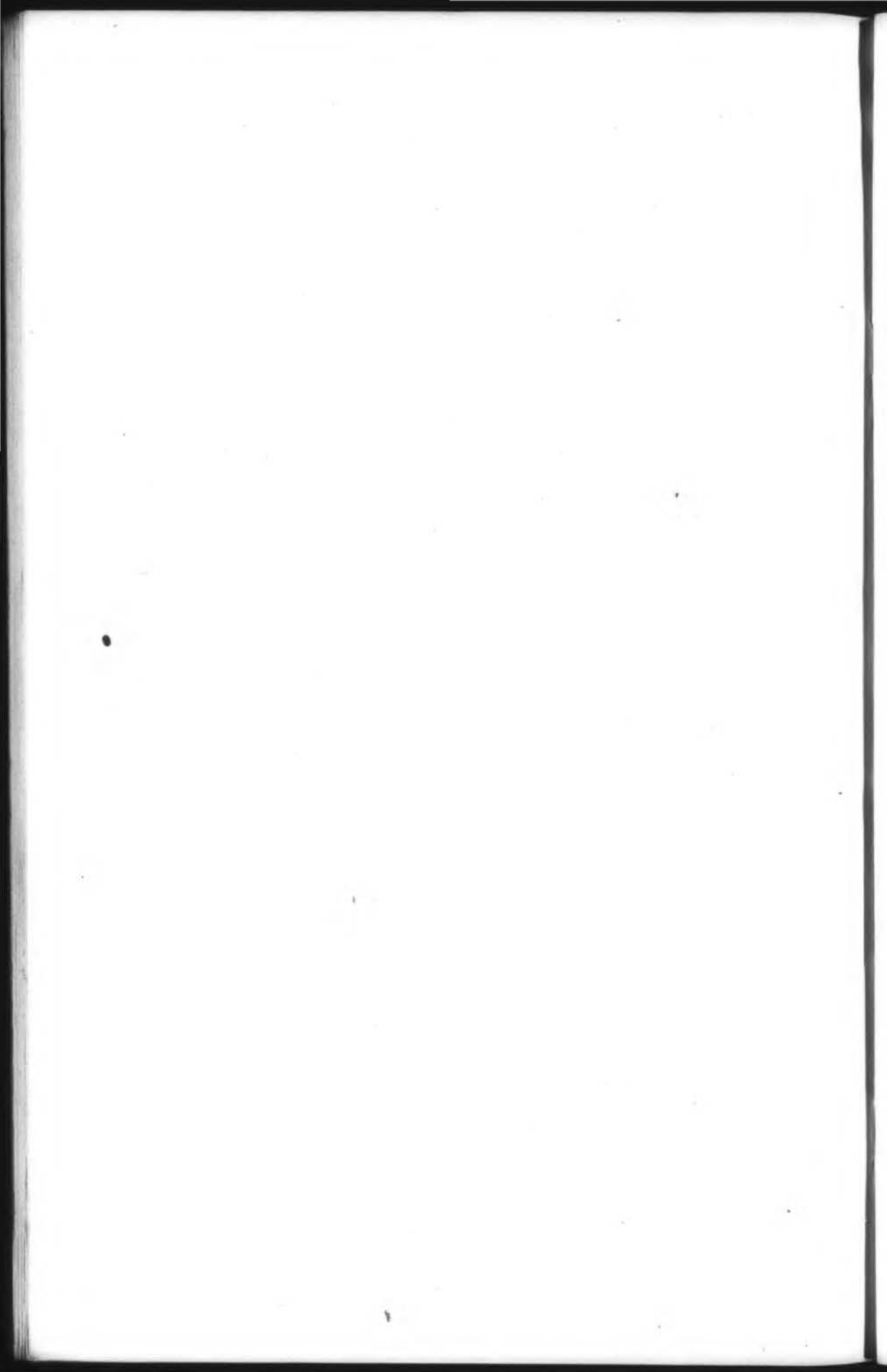
Your committee cannot but feel that the results of the Washington conference, and the information secured while attending same, were richly worth the expenditure of the time and money incurred.

Respectfully submitted,

ED. SCOTT,
F. O. MILLER,
WM. F. COCKE,
Commissioner.

} Committee.

Tallahassee, Florida.
October 1, 1916.



LEGISLATIVE RECOMMENDATIONS.

STATE ROAD DEPARTMENT, STATE OF FLORIDA.

Tallahassee, Fla., January 23, 1917.

*To His Excellency, Hon. Sidney J. Catts,
Governor of Florida,
Tallahassee, Florida.*

Sir:

In order that the State Road Department may fulfill the purpose for which it was created and develop the highway system of the State with greatest efficiency and economy, the following recommendations for proposed legislation are respectfully submitted for your consideration, in compliance with the requirements of Section 8, Chapter 6883, Laws of Florida, said chapter being the Act creating this Department.

It is provided in said Section 8 that "The Department shall report to the Governor not later than sixty days before the meeting of the Legislature such changes in the law as they find expedient to secure the best results in road construction and repair work."

Therefore, this Department recommends:

FIRST.

(a) That Section 4 of the Act creating the Department be revised and amended so as to give this Department power and authority to construct and maintain with convicts or free labor, or to enter into contracts for the construction and maintenance of, such roads and bridges as may come under its supervision.

(b) That Section 5 of the Act creating this Depart-

ment be revised and amended by striking out the provision requiring the County Commissioners of the several counties of the State to "make and file with the Department quarterly reports of and a detailed statement of all moneys expended on such work."

(c) That Section 6 of the Act creating this Department be amended so as to provide that the State Road Department shall, at its discretion, designate certain roads as State Highways and construct and maintain same with funds derived entirely from the State or jointly from the State and Federal government, as such funds may be available; and that this Department may also designate certain other roads as State Aid Roads and shall be given authority to construct and maintain same with funds raised jointly from Federal, State and County sources.

(d) That Section 9 of the Act creating this Department be amended so as to accept the terms of the Federal Aid Act, heretofore tentatively accepted by the Governor of Florida, and appropriating the sum of \$112,000 to meet the Federal aid for the year 1917, and the sum of \$168,000 to meet the Federal aid for the year 1918, these amounts being the apportionment to the State of Florida for the years mentioned.

(e) That Section 10 of the Act creating this Department be amended so as to provide that county officials making remittances to the State Treasurer of moneys for the use and maintenance of this Department shall make a report, showing in detail the source of the revenue so remitted, and that one copy of such report be transmitted to the State Road Department and another copy of the same be kept on file in the office of the county official making the remittance and submitting the report.

SECOND.

That there be enacted a law creating a State Convict

Road Force consisting of all able-bodied State convicts, not required for the operation of the State Prison Farm, and all jail prisoners not actually worked on the roads in the counties where convicted; and that the said State Convict Road Force be used in the improvement of State Highways and State Aid Roads under the supervision and control of the State Road Department. Also, that there be appropriated the sum of \$85,000 for the year 1917 and the sum of \$135,000 for the year 1918 for the maintenance of the said State Convict Road Force.

THIRD.

That there be enacted a law providing for an annual State license fee on all motor driven vehicles, said law to repeal the existing laws permitting counties and municipalities to levy such license fees. This law should provide that the State fund thus created, after setting aside the percentage devoted to the maintenance of the State Road Department, shall be apportioned to the several counties in proportion to the revenue paid by the counties into the State Treasury, and to be used toward the maintenance of State Highways and State Aid Roads, with the proviso that where no such roads exist at the time of such apportionment the fund so appropriated may be used for the construction of roads until a maintenance charge has been created.

FOURTH.

That there be adopted a Joint Resolution submitting to the qualified electors of the State a proposition to amend the Constitution of the State of Florida, providing that the State Legislature, during any session thereof, be authorized to provide for the issuance of State Highway Improvement Bonds for such amounts as may be required to carry forward the construction of a system of State roads during the ensuing two years.

FIFTH.

That there be enacted a law prohibiting the use of the public roads for traffic of an unusual or destructive character and forbidding any load or portion of a load on vehicles using such public roads from dragging on the surface of the road.

SIXTH.

That the existing laws with reference to County Bond Issues and District Bond Issues be so amended as to provide that before any election for such County or District Bonds is held, surveys, plans, approximate estimates and specifications for the construction of such roads and bridges as are provided for shall be prepared by a competent engineer and same approved by the State Road Commissioner, and that no bonds shall be voted on for a less amount than called for in such approximate estimates.

Your attention is respectfully called to the many conflicting and obsolete laws shown in the compilation of the Road and Bridge Laws of Florida, as compiled by the Attorney General, a copy of which accompanies this report, and it is hereby recommended that a systematic revision of these laws be made.

ED. SCOTT, Chairman,
State Road Department.

